

SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. D. NO. CMC/151		SERIAL NO. 10/030,011	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR 1.98(b))				APPLICANT John J. Bissler, et al.		FILING DATE October 29, 2001	
				GROUP 1723			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JWB	A.A	4 1 3 2 6 4 4	1/2/79	Ole-Robert Kolberg	210	85	
	A.B	4 1 7 8 2 4 0	12/11/79	Harry E. Pinkerton	210	22 A	
	A.C	4 2 0 4 9 5 7	5/27/80	Ludwig Weickhardt	210	98	
	A.D	4 3 2 4 6 6 3	4/13/82	Jean C. Hirel, et al.	210	646	
	A.E	4 3 7 2 8 4 6	2/8/83	Seiji Yamagami, et al.	210	86	
	A.F	4 4 8 2 5 9 8	11/13/84	Taiji Ishii, et al.	428	195	
	A.G	4 6 0 6 8 2 6	8/19/86	Yoshihiko Sano, et al.	210	646	
	A.H	4 6 8 4 4 6 0	8/4/87	Gerald Issautier	210	90	
	A.I	4 7 2 8 4 3 3	3/1/88	Robert J. Buck, et al.	210	646	
	A.J	4 7 6 7 3 9 9	8/30/88	Stephen J. Bollish	604	5	
JWB	A.K	4 7 6 9 1 3 2	9/6/88	Carlo Patono	210	86	
FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
JWB	A.L	EP300201	23 JUN 87	Europe	A61M 1/16	A61M 1/34	Corres US pat 4,923,598 No
	A.M	EP373455A1	6/1990	Europe	A61M 1/34		No
	A.N	EP373455B1	9/1993	Europe	A61M 1/34		Yes - claims
	A.O	EP611228	12 FEB 93	Europe	A61M 1/16	A61M 1/34	No
	A.P	FR2397197	2/1979	France	A61M 1/34		No
JWB	A.Q	WO 93/06875	15 APR 93	International PCT	A61M 1/16		No
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
JWB	A.R	1	Cobe Laboratories, Inc., <u>Centrystem 3 - Precise Ultrafiltration Control</u> , Cobe Laboratories, Inc., Lakewood, CO, 1987.				
JWB	A.S	2	T.A. Depner, et al., <u>Pressure effects on roller pump blood flow during hemodialysis</u> , American Society for Artificial Internal Organs Transactions, 31:M456-M459, 1990				
JWB	A.T	3	S. Dirkes., <u>How to use the new CVVH renal replacement systems</u> , American Journal of Nursing, 94(5)67-73, 1994.				
EXAMINER Joseph O'wedge				DATE CONSIDERED 10-27-2003			
EXAMINER: Initial if citation considered, whether or not in conformance. Draw line through citation only if not in conformance and not considered. Include a copy of this form with next communication to applicant.							

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. D. NO.
CMC/151SERIAL NO.
10/030,011INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

APPLICANT
John J. Bissler, et al.FILING DATE
October 29, 2001

GROUP

1723

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JWD	B.A	4 8 4 4 8 1 0	7/4/89	Gerard Richalley, et al.	210	646	
	B.B	4 8 8 9 6 3 5	12/26/89	Jacques Chevallet	210	646	
	B.C	4 9 2 3 5 9 8	5/8/90	Wilfried Schäl	210	87	
	B.D	4 9 8 0 0 5 4	12/25/90	Ardis R. Lavender	210	90	
	B.E	5 2 0 0 0 9 0	4/6/93	Michael G. Ford, et al.	210	739	
	B.F	5 2 1 1 8 4 9	5/18/93	Yuli Kitaevich, et al.	210	645	
	B.G	5 3 4 4 5 6 8	9/6/94	Yuli Kitaevich, et al.	210	645	
	B.H	5 5 0 3 6 2 4	4/2/96	Otfried Roher, et al.	604	65	
	B.I	5 6 7 9 2 4 5	10/21/97	Keith Manica	210	134	
	B.J	5 7 6 2 8 0 5	6/9/98	Lori A. Truitt, et al.	210	645	
JWD	B.K	5 7 7 6 3 4 5	7/7/98	Lori A. Truitt, et al.	210	645	

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
JWD	B.L	WO 98/50091	12 NOV 98	International PCT	A61M 1/34	—	No
	B.M						
	B.N						
	B.O						
	B.P						
	B.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

JWD	B.R	D. Driankov, et al., <u>An Introduction to Fuzzy Control</u> , Springer-Verlag, 2nd edition, 1996, Ch. 3, FKBC Design Parameters, pp. 103-144.
JWD	B.S	E.N. Ellis, et al., <u>Use of pump-assisted hemofiltration in children with acute renal failure</u> , Pediatric Nephrology, 11:196-200, 1997.
JWD	B.T	L.G. Forni, et al., <u>Continuous hemofiltration in the treatment of acute renal failure</u> , The New England Journal of Medicine, 336(18):1303-1309, 1997.

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Joseph Orady

DATE CONSIDERED

10/21/03

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U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JW</i>	C.A	5	8	5	7	9	7	3	1/12/99	Qinglin Ma, et al.	600	441	
	C.B	5	9	1	0	2	5	2	6/8/99	Lori A. Truitt, et al.	210	645	
<i>JW</i>	C.C	5	9	5	6	4	6	4	9/21/99	Asad M. Madni, et al.	395	61	
	C.D	6	0	0	7	4	9	1	12/28/99	Jian Ling, et al.	600	481	
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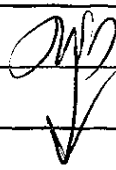

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OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)		
<i>JW</i>	C.R 7	Gambro AB, <u>Hemofiltration in Perspective</u> , Gambro AB, Lund, Sweden, Oct. 1989.
<i>JW</i>	C.S 8	Gambro AB, <u>AK 10 System - Operator's manual for hemofiltration - BMM 10-1 and HFM 10-1</u> , Gambro AB, Lund, Sweden, May 1986.
<i>JW</i>	C.T 9	G.C. Goodwin, et al., <u>Adaptive Filtering, Prediction and Control</u> , Prentice Hall, 1984, Chapter 6, pp.182-207.

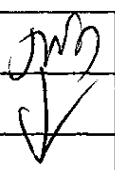
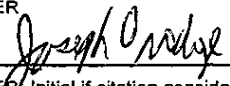
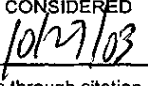
EXAMINER <i>Joseph D. Wadley</i>	DATE CONSIDERED <i>10/27/03</i>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT MAR 26 2002 (Use several sheets if necessary)				APPLICANT John J. Bissler, et al.		
(37 CFR 1.98(b))				FILING DATE October 29, 2001	GROUP 1723	
U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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	D.L					
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	D.Q					
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)						
OW	D.R ₁₀	L.W. Henderson, et al., Kinetics of hemodiafiltration. II. Clinical characterization of a new blood cleansing modality, 1975. Journal of the American Society of Nephrology, 1997. 8(3):494-508; discussion 494-495, 497-500, Mar 1997.				
↓	D.S ₁₁	L.W. Hendersen, et al. (ed), Hemofiltration, Springer-Verlag, New York, 1986, pp. 83-89.				
✓	D.T ₁₂	W. Heinrichs, et al., An automatic system for fluid balance in continuous hemofiltration with very high precision, Intensiv-behandlung, II International Conference on Continuous Hemofiltration, Jahrgang 15, November 3, 1990, p. 110.				
EXAMINER Joseph Orledge			DATE CONSIDERED 10/27/03			
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT John J. Bissler, et al.		FILING DATE October 29, 2001	
				GROUP 173			
(37 CFR 1.98(b))							
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
	E.R.	G. Hillerström, et al., <u>Application of repetitive control to a peristaltic pump</u> , Journal of Dynamic Systems, Measurement and Control, 116:786-789, Dec 1994.					
	E.S.	J.H. Holmes, et al., <u>Removal of fluid from the patient during hemodialysis</u> , Department of Medicine, U. of Colorado, March 1969.					
	E.T.	International Electrotechnical Commission, <u>International Standard, Medical Electrical Equipment, Part 2: Particular requirements for safety of haemodialysis equipment</u> , International Electrotechnical Commission, Geneva, Switzerland, 1989.					
EXAMINER 				DATE CONSIDERED 10/27/03			
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OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
	F.R.	P.A. Ioannou, et al., <u>Robust Adaptive Control</u> , Prentice Hall, 1996, Ch. 1, pp. 8-12.					
	F.S.	R. Johnson Jr., <u>Lecture 13: Model reference adaptive control</u> , In Lectures on Adaptive Parameter Estimation, Prentice Hall, 1988, pp. 111-117.					
	F.T.	Y. Kitaevich, et al., <u>Development of a high-precision continuous extracorporeal hemodiafiltration system</u> , Biomedical Instrumentation & Technology, 27(2):150-156, Mar/Apr 1993.					
EXAMINER <i>Joseph Unodyx</i>				DATE CONSIDERED <i>10/27/03</i>			
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OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
	G.R.	L.H. Lowrie., <u>Renal replacement therapies in pediatric multiorgan dysfunction syndrome</u> , Pediatric Nephrology (2000), 14:6-12.					
	G.S.	M. Nordio, et al., <u>Projection and simulation results of an adaptive fuzzy control module for blood pressure and blood volume during hemodialysis</u> , 4535 ASAIO Journal, 40(1994) July-September, No. 3, Hagerstown MD, pp. M686-M690.					
	G.T.	N.J. Ofsthun, et al., <u>Ultrafiltration and backfiltration during hemodialysis</u> , Artificial Organs, 19(11):1143-1161, 1995.					
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(37 CFR 1.98(b))

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U.S. PATENT DOCUMENTS

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	H.L						
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	H.P						
	H.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

H.R.	✓	E.P. Paganini, <u>Acute continuous renal replacement therapy</u> , Martinus Nijhoff Publishing, 1986, pp. 91-111.
H.S.	✓	K.M. Passino, et al., <u>Fuzzy control: The basics</u> , In Fuzzy Control, Addison-Wesley, 1998, Ch. 2, pp. 22-73.
H.T.	✓	W. Pedrycz., <u>Fuzzy controllers - preliminaries and basic construction</u> , In Fuzzy Control and Fuzzy Systems, Research Studies Press, Somerset, 2nd edition, 1993, Ch. 4, pp. 22-73.

EXAMINER

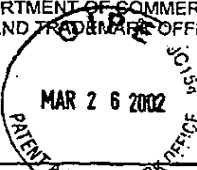
Joseph V. Dodge

DATE CONSIDERED

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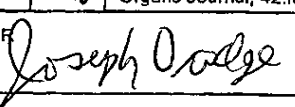
SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. CMC/151	SERIAL NO. 10/030,011
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)				APPLICANT John J. Bissler, et al.	
(37 CFR 1.98(b))				FILING DATE October 29, 2001	GROUP 172



U.S. PATENT DOCUMENTS							
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OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)		
DW?	I.R	C. Ronco., <u>Hemofiltration and hemodiafiltration</u> , In J.P. Bosch, editor, Hemodialysis: High-Efficiency Treatments, Vol. 27 of Contemporary Issues in Nephrology, Churchill Livingstone, New York, 1993, Ch. 9, pp. 119-134.
✓	I.S	M. Sagy, et al., <u>Continuous flow peritoneal dialysis as a method to treat severe anasarca in children with acute respiratory distress syndrome</u> , Critical Care Medicine, Vol. 27, No. 11:2532-2536, 1999.
✓	I.T	J. Sands, et al., <u>Difference between delivered and prescribed blood flow in hemodialysis</u> , American Society for Artificial Organs Journal, 42:M717-M719, 1996.

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MAR 26 2002

APPLICANT
John J. Bissler, et al.

(37 CFR 1.98(b))

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	J.P						
	J.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

J.R	Sartorius GmbH, <u>Hemoprocessor 40020 Operating Instructions</u> , Sartorius GmbH, Göttingen, Germany, Sep. 1984.
J.S	J. Schaeffer, et al., <u>Long term performance of hemofilters in continuous hemofiltration</u> , Nephron, 72:155-158, 1996.
J.T	T. Terano, et al., <u>Automotive speed control</u> , In Applied Fuzzy Systems, Academic Press, Cambridge, 1989, Ch. 3, pp. 85-93.

EXAMINER

Joseph Chidgey

DATE CONSIDERED

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Substitute Disclosure Form (PTO-1449)

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OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
JWD	K.R	K.S. Tsakalis, et al., <u>Model reference control</u> , In Linear Time Varying Systems: Control and Adaptation, Prentice Hall, 1993, Ch. 4, pp. 90-123.					
JWD	K.S	L.X. Wang., <u>Fuzzifiers and defuzzifiers</u> , In A Course in Fuzzy Systems and Control, Prentice Hall, 1997, Ch. 8, pp. 105-117.					
	K.T						
EXAMINER <i>Joseph O'roge</i>				DATE CONSIDERED 10/27/03			
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PATENT AND TRADEMARK OFFICEATTY. D. [REDACTED] NO.
CMC/157SERIAL NO.
10/030,011SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT BY APPLICANTAPPLICANT
John J. Bissler, et al.

(37 CFR 1.98(b))

(Use several sheets if necessary)

FILING DATE
October 29, 2001

GROUP

1723

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER								ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WD	A.A	6	2	0	0	4	8	5		3/13/2001	Yuli Kitaevich, et al.	210	739	
	A.B													
	A.C													
	A.D													
	A.E													
	A.F													
	A.G													
	A.H													
	A.I													
	A.J													
	A.K													

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	A.L						
	A.M						
	A.N						
	A.O						
	A.P						
	A.Q						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

WD	A.R	S. Ash, <u>Principles and Practice of Hemodialysis Therapy</u> , CRC Handbook of Clinical Engineering, Vol. 1, B.N. Feinberg and D.G. Fleming, ed., CRC Press, 1980, pp. 177-210.						8
WD	A.S	R. Bellomo, et al., <u>Use of continuous haemodiafiltration: An approach to the management of acute renal failure in the critically ill</u> , American Journal of Nephrology, 12:240-245, 1992, pp. 241-245.						12
WD	A.T	Hospital, <u>Hospital Instruction Manual</u> , BSM 22SC, Rev. A, March 1990, pp. 29-30 & 57.						5

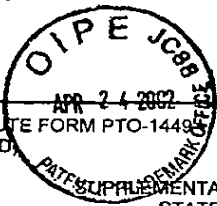
EXAMINER

Joseph O'Leary

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SHEET NO.SERIAL NO.
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	B.A.						
	B.B.						
	B.C.						
	B.D.						
	B.E.						
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	B.H.						
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	B.J.						
	B.K.						

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	B.L.						
	B.M.						
	B.N.						
	B.O.						
	B.P.						
	B.Q.						

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

JWB	B.R.	P. Kramer, <u>Limitations and pitfalls of continuous arteriovenous hemofiltration</u> , Arteriovenous hemofiltration: A kidney replacement therapy for the intensive care unit, P. Kramer, ed., Springer-Verlag, Berlin, 1985, pp. 206-212. 5
JWB	B.S.	Sartorius, <u>Sartorius Hemofilter</u> , Sartorius GmbH, date unknown 4
JWB	B.T.	Sartorius Membranfilter, Sartorius Hemofilter and Hemoprocessor, A New System for Hemofiltration, Sartorius-Membranfilter GmbH, date unknown. 0

EXAMINER

Joseph D. Dodge

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR 1.98(b))				APPLICANT John J. Bissler, et al.			
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	C.A.						
	C.B.						
	C.C.						
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	C.J.						
	C.K.						
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		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
	C.L.						
	C.M.						
	C.N.						
	C.O.						
	C.P.						
	C.Q.						
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
Jwb	C.R.	G. Tao, et al., 4. Fixed Inverse Compensation; 6. Continuous-Time Adaptive Inverse Control; 7. Discrete-Time Adaptive Inverse Control; 9. Adaptive Inverse Control for Output Nonlinearities. Adaptive Control of Systems with Actuator and Sensor Nonlinearities, John Wiley & Sons, 1996, Chapters 4, 6, 7 & 9.					
	C.S.						
	C.T.						
EXAMINER <i>Joseph Orndorff</i>				DATE CONSIDERED <i>10/27/03</i>			
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